

# FOLIO

University of Alberta

30 November 1989

## Alberta Centre for Well-Being based here

Albertans are saying that they want to move towards the wealth that comes from being healthy, says Gerry Glassford, Dean of the Faculty of Physical Education and Recreation. The Faculty and its counterpart at the University of Calgary, the Department of

Physical Education at the University of Lethbridge, and the Recreation, Parks and Wildlife Foundation have been listening, so much so that they have created the Alberta Centre for Well-Being.

At a news conference at University House 23 November,

Alberta Recreation and Parks Minister Stephen West and President Paul Davenport ushered in the Centre, an action that included the presentation of a cheque for \$1,070,000 (initial funding for three years) to Dr Davenport.

The Centre is housed within the Faculty of Physical Education and Recreation and is affiliated with the Universities of Calgary and Lethbridge. Under the direction of Judy Sefton, the Centre will try to promote the concepts of well-being by building a network for leisure and well-being professionals, sponsoring conferences and workshops, developing programs for use in homes, schools and the workplace, and publishing a quarterly journal and a more frequent newsletter.

"We'll work with the Be Fit for Life centres through a 12-member advisory board which has academic

and community representation," says Dean Glassford.

While anxious to promote the Centre, Dean Glassford says its organizers are fully supportive of the province's curative system. "We just want to add to it . . . we're very concerned about helping people live better, about making the quality of life in Alberta second to none in the world."

The Centre's office is in G108 Education South and while headquarters space is being sought off campus, the researchers will always be based here. An information coordinator is to be hired soon and two PhD level researchers will join the staff in March 1990. Sefton says the first order of business is to get the network up and running, to make the professionals in the related fields aware of the Centre and its capabilities. "We also have to get a newsletter out early in January to inform the public of the Centre," Sefton says.

Promotional material for the Centre says the concept of well-being or optimal health involves a delicate balance between physical, emotional, spiritual, intellectual and social health. "In order to reach a state of complete physical, mental and social well-being, an individual or group must be able to identify and to realize aspirations, to satisfy needs, and to change or cope with the environment." □



The federal government's proposed Goods and Services Tax represents a cornerstone of the government's economic strategy for the future. However, what impact will the tax, if implemented, have on postsecondary institutions such as colleges and universities? In a two-part series, Folio examines government, Canadian Association of University Teachers, Association of Universities and Colleges of Canada and academic viewpoints on the controversial tax. See page six for government and CAUT and AUCC points of view.

University of Alberta

## United Way goal ever so close

The "mercury" in the United Way thermometer in front of the Students' Union Building is a sight for eyes still sore from the University's less than auspicious showing in recent campaigns.

However, we're still 2 percent away from the goal of \$150,000.

The Campus Campaign Committee—Doug Wilson, John Bertie, Meg Clarke and Murray Steen—urges members of the University community who haven't made a donation to do so at their earliest opportunity.

Contributions should be sent to the Office of the Comptroller. □



## INSIDE

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- 'Letters'
- Print artists produce calendar
- Construction of University Station starts 22 January
- Coffin at helm of Career and Placement Services

30 November 1989



Education Dean Bob Patterson speaks on the future of teacher education in the 1990s. He addressed faculty and students 23 November.

# FOLIO

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Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



University  
of  
Alberta

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**Classified advertisements:** 3 pm one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 35 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.75. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

**Display advertisements:** 3 pm one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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## Dean of Education contends that extremes of individualism are eroding community values

"We live in an age and time when we can cheer the tearing down of walls in Europe, but we live as well in a time where walls are being built up as fast . . . walls that shut out the poor, the addict, the oppressed, the abused and the disadvantaged," says the Dean of the Faculty of Education.

And, according to Bob Patterson, quality of life is being "measured increasingly by our possessions, by degrees of self-indulgence, by our striving for less work, and, it seems, for lower standards of performance, trust and honesty."

As the second speaker in a lecture series, Dean Patterson presented his view on teacher education in the 1990s. He focused on three primary areas: current values and what's in store if they're extended into the future; the expectations that we should have of teachers; and what the essential requirements of a teacher education program should include.

"The extremes of individualism, of my right to choose, of my right to do what I please, irrespective of the cost or consequence, seem to be readily apparent," Dean Patterson said, adding that within society, the University and the Faculty "we lose sight of what could be accomplished by addressing these larger issues."

On equality, Dean Patterson said there have been gains, but he asked how native people would view matters of access and opportunity, "or whether or not they would feel satisfied with the degree of educational opportunity available to their society and community." He also questioned whether the educational disparities between the urban and rural systems have been adequately addressed.

On the erosion of community, Dean Patterson said polarized groups feel increasingly alienated by economic circumstance, by race, by educational level, and by access to power, and this makes it more difficult to establish a sense of common interest in the well-being of one another. This is accompanied by a growth of varying forms of insensitivity and ignorance, he argued.

The educational establishment has "become so preoccupied with our separate domains that in many ways we've lost that ability to work together to deal with these issues."

On the second theme, Dean Patterson said that professional competence needs to be seen not just in terms of technical expertise, but in terms of how we understand the world and social well-being. If educators become so preoccupied with technical considerations, it amounts to "straightening deck chairs on the Titanic," Dean Patterson said.

"We want people who are capable of leading inside and outside the classroom," he continued. "What we have to do in the Faculty is to cultivate an informed and imaginative vision of what education might mean in a more truly humane society."

Dean Patterson said although the issues of shortages, quotas and budget restraints must be dealt with, the Faculty must consider the more basic issues. He suggested a greater interaction between the Faculty, schools and other agencies and a more collaborative decision-making process.

As well as providing leadership on cross cultural experiences, the Faculty must come to grips with the limitless growth of knowledge. "One of the questions that presents itself is how do we put all of that into some kind of program that will serve the needs of our students? Do we think that we can continue to pack the curriculum?" he asked.

Dean Patterson challenged his listeners to "run the risk of standing back from the multiplicity of courses that we've generated and that we might yet generate, and say to ourselves 'are these really as vital in that form as we think they are, and might we more profitably attend to matters that would get at the integration of this knowledge, or of problem-centred learning, or helping our students to acquire the skills and attitudes that would encourage them to pursue this knowledge in their own way in relation to the needs and circumstances of their classrooms.'" □

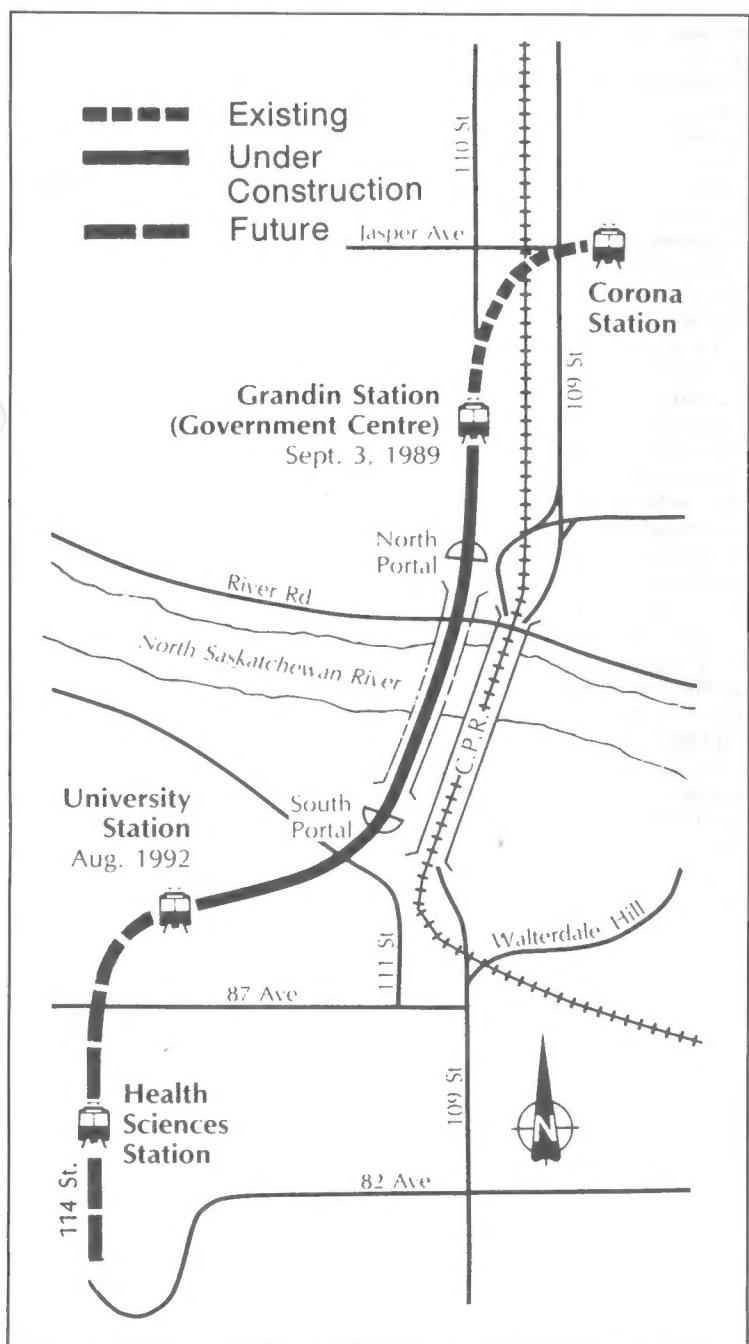
# University Station: nearly time to move from the drawing board to the site

University Station, the next phase in the South LRT Extension project, is currently out to tender, with tenders scheduled to close in mid-December. Construction will start 22 January and continue for about two and a half years.

"It's not anticipated that any disruption of regular University activities will occur," says Elizabeth Dechert (Planning and Development). The LRT tunnel (it's not an excavation) will be

23 metres deep and the station will stretch from the Rutherford Court area near the southwest corner of HUB International across 89 Avenue to the vicinity of the bus shelter located near Education North.

Her "best guess" is that 89 Avenue between 112 and 114 Street will be closed to all traffic about one week before construction starts; the temporary transit loop in the Jubilee



Auditorium parking lot will then become a traffic hub.

The long range transit plan calls for 89 Avenue to be converted to a pedestrian street, that is, a street with one-way bus traffic and no cars. There will, however, always be access for University of Alberta and emergency vehicles.

There will be two points of access to University Station: a two storey building directly east of HUB facing 89 Avenue (there will be an above grade connection into HUB) and a single storey building where the bus shelter now stands. LRT passengers can descend to the point of departure via escalator, elevator or stairs.

The University has made South LRT planners aware of its intention of installing weather protected links between major buildings. Dechert says the day will come when there will be complete linkage in and around University Station. □

## Task Force on Public Relations about to make findings known

At the Senate meeting on 1 December (Council Chamber, University Hall), the Task Force on Public Relations will present its draft report. The task force has been at work for some 12 months; besides the questionnaire which was circulated to more than 150 senior administrators, about 120 people from other key publics of the University came to the Senate office to share their thoughts for the purposes of this study.

All are welcome to attend this presentation which is scheduled for 1:15 pm.

Dean Patricia Clements will speak to Senate about the work and plans of the Faculty of Arts, and among other items to be discussed are the Report of the Senate Lay Observers on Quota programs; the Enrolment Report received from the Office of the Registrar; and the procedures for the election of the Chancellor in March 1990. □

# Folio

## Display Advertising

*Folio* is the official news publication of the University of Alberta, published every Thursday throughout the academic year; published biweekly during the summer. It has a regular distribution of 9,200 of which 8,500 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

### Sizes and rates

The basic unit size in 11 picas x 23 picas (3 13/16 x 1 13/16). The full page is divided into 10 such units, any combination of which is available at a cost of \$40 per unit (minimum 1 unit). Half page cost: \$200. One column cost \$100. There is a 25% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

### Other Specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds; Camera ready copy is necessary; there is a charge of 35c per word for typesetting, and \$7.50 for adjustment of design work.

### Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 492-2325 and ask about *Folio* display advertising, or write to:

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## LETTERS

### Hold to academic criteria in recruiting and shun concerns for statistical proportions

■ The odds of getting all girls in a family of five are 1:32. I suppose the odds of getting all women in the best applicants for five positions in the Department of English are about the same—improbable but not incredible. The latter event might not have drawn much attention if the Department of English had not previously decided to make special efforts to hire more women and fewer men.

Earlier, the department had hired five men and one woman. (The odds of five boys and a girl in a family of six are slightly more than 1:11.) That event did not draw much attention, although it certainly would have if there had been a prior departmental decision to make special efforts to hire more men and fewer women.

There are lessons for the future in this experience with special efforts to hire more women and fewer men.

One, happily the one that will shine longest, is that hard work pays. The department and its Chair made outstanding efforts and got outstanding recruits.

However:

Discrimination, against men as against women, at any stage of the recruiting process from searching to hiring, should be scrupulously avoided.

It should be avoided because it is wrong. It is discrimination by sex, and it is simply wrong.

It should be avoided because it is against University policy. We are an equal opportunity employer.

It should be avoided because it is misdirected. If now-older women have in the past been unjustly treated by now-older men, any remedy should be between them. The remedy is not for older folks at safe desks to sacrifice now-young men.

It should be avoided because it weakens trust. We trust selection committees to do their honest, unbiased best, at every stage of the recruiting process, to seek and pick the academically most promising applicants. The introduction of nonacademic criteria at any stage in the process will create suspicion. That's how it is; people will suspect that there has been discrimination by sex in particular appointments, if they have been told that there is a general policy of discrimination by sex.

It should be avoided because it is superfluous. Even if 'gender balance' is a valid goal (and its emphasis on the group rather than on the individual puts it in conflict with some valid goals), we will in future be hiring more women without special effort to do so because in future there will be more women among the best applicants.

The lesson is that we should hold to academic criteria in recruiting and all that, and shun concerns for statistical proportions, gender balance, or any 'special efforts' except special efforts to find the best people. We should seek and hire the best people for teaching and research, and let the gender data fall where they may. In that symbolic case where two candidates are identical except for gender, we should hold to principle and flip a coin. Equality of opportunity must exist and must be seen to exist.

*Tom Powrie  
Department of Economics*

### Will University spend more on administration to serve smaller number of students?

■ Recently the Faculty of Arts approved a quota that will see the undergraduate enrollment in that Faculty drop by about 25 percent. The Faculty of Science has also approved a quota

that will require that the enrollment in the first year drop from the current figure of close to 2,000 to 1,300. The Dean of Science has told us that "there is an unfortunate link in the *Next Decade and Beyond* document between reductions in the undergraduate population and increases in the graduate programs. It is important to emphasize that there is no such link for this Faculty." This leaves me confused, but, whatever the interpretation, these measures are severe.

After a rather dramatic rise in the student population in 1983-84 when the Science Faculty enrollment rose by 16 percent over the previous year, the enrollment in the Science Faculty has remained essentially constant, rising by only 2 percent since 1983-84. So the question is: what broke the camel's back? It appears that suddenly this year we do not have the resources we used to have. The Chair of my department has told us that there is hardly any soft money in the Science Faculty's budget which had allowed us to function in the past. We are also told that there is no guarantee that even the 20 percent residual salary from study leaves will flow back to the departments.

While the teaching faculty is being made to bite the bullet I also notice that our University has embarked on a pay equity program whose implementation will cost us dearly in the future, not to mention the damage to the morale of our technical staff. And don't forget the consultants' fees! Now we are also told that the University will create two new vice-presidents. However, we are comforted (*Folio*, 9 November 1989) that not only will this move not cost us any more money but, in fact, may even save us some! Don't laugh! Are we witnessing a sleight of hand? I suggest that we are.

The positions being closed are those of two associate vice-presidents, one associate director, one director and one executive director. In addition to the two new vice-presidents, there will also be two new directorships created. It would seem that there is a net abolition of one position. However, the new positions are all senior positions while three of the five positions that are being closed are junior positions. I expect that these new vice-presidents and directors will want new associate vice-presidents and associate directors. A quick look at the telephone directory reveals eight associate vice-presidents for the current three vice-presidents. I conclude that the two new vice-presidents will appoint four to six new associate vice-presidents, or their equivalents, not to mention the executive assistants and secretaries. It seems very clear to me that we will be spending more on administration to serve a smaller number of students.

We seem to have lost sight of the purpose of the University. The reputation of a university is built not on the number of vice-presidents and associate vice-presidents, but on the quality of the faculty and the quality of teaching and research. And let us not forget the quality of technical support and library facilities. I know that the funds for journal subscriptions for the Physical Sciences Library were severely cut this year.

This University needs to rethink its priorities. As we move into the next decade we will find it more and more difficult to compete with other universities (remember, our competitors will be south of the border) in hiring first rate faculty members unless we have the resources. When I get into a false sense of complacency, I am reminded of what a colleague from Stanford University told me only two years ago: "You guys would become a second rank university if you tried hard enough." Sadly, we are not perceived to be in the league of Maryland, Michigan or Illinois. The financial pinch that the teaching faculty, the Library and the technical staff are faced with, will take the day further into the future when we would be able to call ourselves a second rank university on the North American scale. It all makes me very angry and sad.

*AN Kamal  
Department of Physics*

## Nathalie Mercier Première lauréate de la Bourse Jean Patoine

Récemment créée grâce à un généreux don du Fonds Jean Patoine et d'un montant de 1,800\$, la Bourse Jean Patoine a été décernée pour la première fois à une jeune diplômée de l'Ecole JH Picard, Mademoiselle Nathalie Mercier. Nathalie s'est distinguée non seulement par d'excellents résultats scolaires mais aussi par ses nombreuses activités au sein de la communauté. Elle est une

musicienne et une chanteuse accomplie et appartient à Elite, un groupe de trois chanteuses francophones qui est en train de se tailler une place de choix dans le monde de la chanson. Nathalie Mercier est inscrite en première année à la Faculté Saint-Jean et compte se spécialiser en psychologie pour ensuite se tourner vers des études en gérontologie.□



Nathalie Mercier

 **University of Alberta  
Edmonton**

welcomes  
**Nominations for Chancellor**  
to serve four years commencing 1 July 1990.

The Chancellor represents the University at ceremonial occasions and confers all degrees. The Chancellor is elected from the general public by the University Senate; is the chairperson of the Senate and an ex officio member of the Board of Governors. The Chancellor represents the public interest in the University and is permitted by Alberta Government legislation to serve only one four-year term.

Nominees should be Canadian citizens or landed immigrants; possess a strong interest in university-community affairs; and have adequate time to apply to the considerable duties involved.

Nominations, which should include the names and addresses of two nominators, the signed consent of the nominee and be accompanied by a resume, must be received in the Senate Office by 4:30 p.m., 15 December 1989, and addressed to:

Chairperson, Search Committee for Chancellor  
The Senate, University of Alberta  
150 Athabasca Hall  
Edmonton, Alberta T6G 2E8  
Tel. (403) 492-2268

## Calendar a cornucopia of etchings

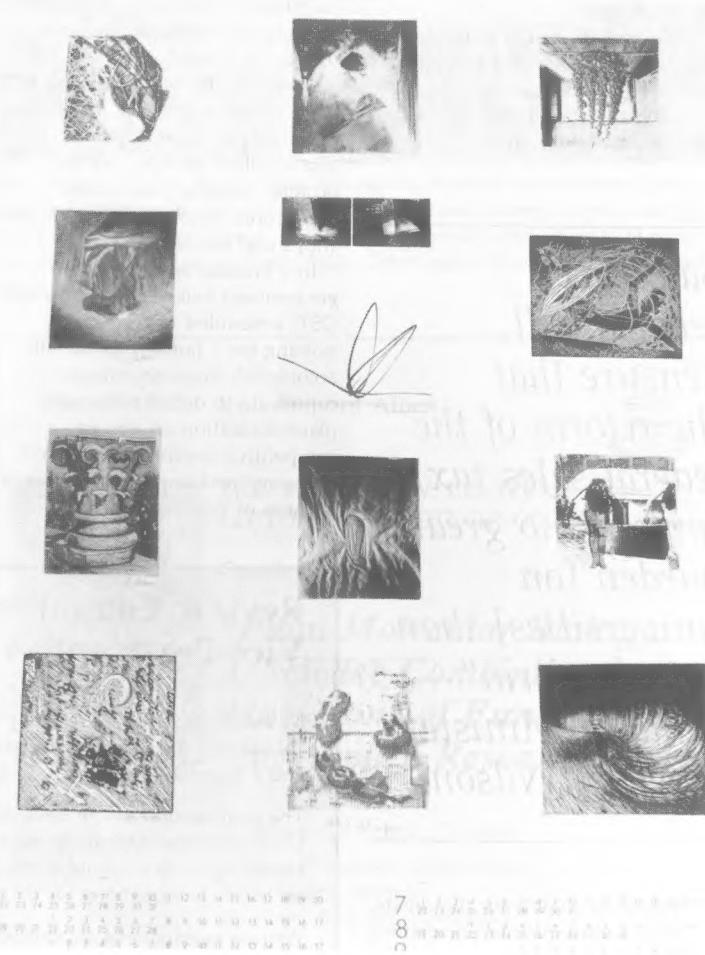
On one of FAB Gallery's walls is a framed calendar produced by 13 print artists who are academic and technical staff and graduate students in the Department of Art and Design.

The single sheet calendar is one in an edition of 100. It features an original etching created by each artist especially for this project which seeks to raise money to help repair deteriorating facilities in the printmaking workshops.

The calendar, hand printed on

100 percent rag paper, is a "mini exhibition" of the artistic prowess of Liz Ingram, Walter Jule, Lyndal Osborne, Darci Mallon, Marlene MacCallum, Karen Dugas, Marc Siegner, Steven Dixon, Michael Laurie, Doris Freadrich, Mark Bovey, Michelle Lavoie and Fudezuka Toshihisa (visiting artist from Japan).

The calendar costs \$50 and is available through the Department of Art and Design, 3-98 Fine Arts Building.□



The 1990 Edmonton Print Artists Calendar.

Public Affairs

### "Employment equity and academic hiring: legal and philosophical dimensions"

A panel discussion with:  
Anne McLellan (Law)  
Roger Shiner (Philosophy)  
Tim Dare (Philosophy)  
Wendy Donner, Moderator  
(Philosophy)

**Monday, 4 December, 4 to 6 p.m.  
2-5 Business Building**

## Universities and the GST: the government view

Will colleges, universities and other public sector organizations suffer if the proposed Federal Goods and Services Tax is enacted?

According to Federal Finance Minister Michael Wilson, these institutions will receive partial rebates of sales tax paid on their purchases. This measure, says the government's recent technical paper on the GST, will "ensure that the reform of the federal sales tax imposes no greater burden than before reform."

Such a rebate would apply to any GST paid on goods and services purchased by colleges and universities for their own use in pursuing their objectives.

*"Sales tax rebates will "ensure that the reform of the federal sales tax, imposes no greater burden [on universities] than before reform" — Finance Minister Michael Wilson*

Institutions eligible for the rebate are proposed to include universities and colleges if they are a recognized publicly funded university, public college or an affiliated research centre.

Still unknown, at this point, is just what that exact rebate figure will be. "The federal government will be discussing this issue with the appropriate representative organizations prior to making final decisions on the rebate percentages," the technical paper outlines.

On the provision of education services, universities and colleges "will be exempt with respect to

their supplies of instruction in courses which can be taken for credit leading to diplomas and degrees, whether that instruction is supplied as part of their regular fulltime programs or as part of their extension or adult education programs," the paper says.

"In addition, these institutions will not be required to charge tax on courses providing second-language instruction in either of Canada's two official languages, whether or not such courses are provided as part of a degree program."

However, these institutions will have to live with some restrictions. For example, sales of new goods and ancillary services will be taxable, including university bookstores, museum souvenir/gift shops and similar stores.

In a broader sense, the government believes the proposed GST, scheduled to replace the existing tax 1 January 1991, will accomplish three objectives: contribute to deficit reduction; place the nation on a more competitive footing in the world economy; and improve the overall fairness of the tax system. □

## *Students will feel the impact of GST imposition, AUCC asserts*

Despite Federal Finance Minister Michael Wilson's assurances that "the reform of the federal sales tax will not impose any greater burden on universities and colleges than before reform," postsecondary education representatives aren't taking any chances.

Both the Canadian Association of University Teachers and the Association of Universities and Colleges of Canada have submitted briefs and made representations before the House of Commons Standing Committee on Finance hearings dealing with the government's proposed Goods and Services Tax.

"AUCC wishes to ensure that any additional costs of the GST, either direct or indirect, will be minimized so the precarious financial status of the higher learning institutions in Canada will not be further threatened," AUCC Executive Director Claude Lajeunesse told the Finance Committee 26 September.

Lajeunesse said the AUCC's main proposal is to negotiate a single rebate percentage that would apply to all purchases. "This proposal would not create any

revenue losses for the government, but rather would eliminate unproductive expenses in the universities and lower the requirement for additional Revenue Canada staff to control the application of the law," he said.

A single rebate percentage would be applied to all purchases, including goods and services, to all three categories: taxable, exempt and zero-rated. "This would see us collect and remit the tax in those areas which are to be classed as taxable, but instead of having to track all tax paid in order to secure tax credits we would use one negotiated rate against all institutional purchases without the tracking or allocation that would otherwise be necessary," Lajeunesse said.

Lajeunesse said the AUCC was concerned that the GST would mean additional costs for students. "There will be pressure for increased residence and food services fees," he said, adding that costs of classroom materials and textbooks would also increase for students.

Responding to a question by Ottawa South MP John Manley, Clarkson Gordon partner Peter Wood, who is researching the impact of the proposed tax for the AUCC, said one area which the AUCC is not entirely clear on yet is how the government proposes to tax charges for R&D. However, he said, "Overall the universities should not be worse off than they are now. We think with the rebate percentage the universities do not bear a lot of federal sales tax now, and that they will not bear a lot of GST."

In its response to the proposed tax, CAUT outlined 13 separate recommendations. It, too, pinpointed the potential impact the tax would have on students' books and supplies.

The CAUT recommended that residence accommodation and meals be made "tax-free" rather than "tax exempt" and all courses offered by universities, credit or non-credit, be accorded the same tax status. Furthermore, CAUT also recognized that there be ". . . either a point of sale exemption or a specific refundable income tax credit for books, *Continued on page seven*

### Review Committee for Vice-President (Academic)

Dr Peter Meekison has agreed to continue as Vice-President (Academic) for a four-year term beginning 1 July 1990 and to that end a Review Committee is being established.

The composition of the Review Committee for Vice-President (Academic) includes three members of the full-time and part-time faculty who do not hold administrative positions and who are not on leave. Nominations for these positions are now being sought.

Written nominations supported by the signatures of five members of the full-time and part-time academic staff (not including the nominee) may be submitted to the Director of the University Secretariat, Ellen Schoeck Solomon, 2-5 University Hall. Nominations must be received by Friday, 8 December 1989, 4:30 pm. Nominees must agree to stand for election to the Review Committee. GFC regulations require that nominees may not be holders of administrative positions, such as Dean or Department Chair, since administrators are already represented on the Review Committee. The full composition of the Review Committee for Vice-President (Academic), together with nomination and election procedures, is contained in Section 102 of the GFC Policy Manual. If you have any questions about eligibility to serve or to nominate, please call Ellen Schoeck Solomon at 492-5430.

## Geology urges other departments to give thought to Christmas hampers

The Department of Geology, taking its cue from the Edmonton Christmas Bureau, is preparing a hamper for one of Edmonton's many needy families. "We circulated a notice to our staff and students that asked for a monetary donation or foodstuffs," says Cathy Gendron, a research assistant in the department. (The Christmas Bureau supplies donors with details on destitute families, including children's ages.)

Later in December the department will ask for a volunteer to deliver the hamper to the family's door by 20 December.

"We're getting a tremendous response, so much so that we're thinking we'll be able to prepare a second hamper," Gendron says.

Two years ago, Geology and the Department of Mathematics combined on an impressive hamper (the recipients found themselves with groceries that lasted well into January). Geology was unable to put up a hamper last year because of the move to the Earth Sciences Building. Thanks to a student who reminded the general office of the Christmas 1987 accomplishment, the department is eager pick up where it left off.

Gendron says interested departments can learn more about the Christmas hamper program by calling the Department of Geology (492-3265, 492-2044) or the Edmonton Christmas Bureau (421-9627). □

### Students, GST impact

*continued from page six*

equipment and other supplies required by students for the purposes of their studies."

On the research question, the CAUT wants it made clear that the provision of funding for university research will not constitute a taxable sale. "At the very least, this should apply on an equal basis to funding by the federal granting agencies, funding by other nonprofit granting organizations and private sector grants under the matching grants program." If the tax is applied to research, CAUT argues that it should be restricted only to profit-oriented research under contract to the private sector.

Furthermore, university research should be accorded "tax-free" status and any research carried out under the financial administration of a university be treated as university research for the purposes of the application of the GST, CAUT outlined.

Echoing a commonly heard concern, CAUT officials said potential administrative complexities must be tackled by the Finance Department. "An input tax credit should be allowed for all goods and services tax paid by institutions to avoid the administrative complexity of apportionment of taxes paid by institutions between commercial

and educational activities, with the tax applicable to commercial activities being collected and remitted in the normal manner," the CAUT brief suggested.

CAUT wants the federal government to ensure that the provision of basic public services by public sector institutions such as universities and colleges be made "tax free" rather than "tax exempt". And to avoid the possible pyramiding of taxation on educational services, CAUT wants the GST to be revised by applying the input credit system under a "tax free" status to universities and colleges.

CAUT also had some suggestions concerning child care services. The organization wants full recognition for day care as a "basic public service under the goods and services tax system." It also suggested that an input tax credit be available for child care users.

It also wants the tax exemption for nonprofit organizations extended to include national professional organizations not primarily or substantially engaged in providing otherwise taxable goods and services to its members. Only services offered by these organizations which are clearly "commercial" in nature should be subject to tax. □

\* Next week: faculty at the Universities of Alberta and Toronto assess the GST.



Public Affairs

The University's Peer Health Educators and the Students' Union joined forces last week in presenting Alcohol Awareness Week. The events were designed and meant to promote public awareness of the issues. Here, participants get ready to march to the Legislature to join the Circle Rally. Other events included seminars, coffee houses and displays.

University of Alberta  
Edmonton



Dr. Raymond U. Lemieux,  
F.R.S. University Professor

To honour  
Dr. Lemieux for  
his contribution  
to Alberta's  
biotechnology  
industry.

Sponsored by the  
Vice-President  
(Research) and  
ATRT.

THE RAYMOND U. LEMIEUX  
LECTURES ON BIOTECHNOLOGY

Fourth Lecture

**"Plant Molecular Biology:  
A Science Combining the  
Attractions of Fundamental  
and Applied Research"**

Professor JS Schell, Director  
Genetic Principles Department,  
Max Planck Institute  
Cologne, Fed Rep Germany

3:00 p.m. Friday,  
1 December 1989

Tory Lecture Theatre  
TLB 2

Professor Schell has played leading roles in the application of genetics and genetic engineering to bacteria, viruses and plant tumors. His scientific contributions made in many countries include most recently participation in major planning in forestry developments in Canada.

# Don't close any doors along the way, civil engineer says

Although aptitude tests indicated Fay Hicks might be best suited to pursue a career in architecture, her early exposure to the world of civil engineering was, for her, a much more intriguing world to explore.

"All my buildings looked like an engineer had designed them and instead of being wild and exciting they were practical and functional," says Civil Engineering's recently hired, tenure track assistant professor.

Once she realized that engineering was her chosen field, the New Brunswicker quickly moved up the educational ladder. With a technical diploma in hand, she moved on to the University of New Brunswick where she completed her engineering undergraduate degree.

She was then recruited by Alberta Environment, spent the next five years as a river engineer for that department, and at the same time pursued an MSc parttime at the U of A.

Buoyed by her sister's successes, (she's a University of Manitoba professor), and encouraged by adviser Peter Steffler to continue her studies, Hicks realized that a PhD was also attainable. Backed by supportive parents and her husband, Les, who is a bioscience technologist, Hicks is within sight of completing her PhD thesis in the spring (it's on numerical modelling of unsteady open channel flows).

She now stands poised to pursue a career in teaching and research. "In terms of computation modelling . . . it's the leading edge and it's where it's at right now." It's in this area where her long-term research efforts will be concentrated.

But while her research occupies centre stage in her own academic life, inevitably many people see her place as a woman in a field hitherto not traditionally occupied by women as the most interesting aspect of her career.

She readily concedes that she is unique in that sense, but she says, "It doesn't seem like a novelty to me, it just seems like another day at work. I'm not used to thinking about that being a difference." And what about her colleagues? "Whether it's a factor or an issue with them . . . I don't really think it is.

"Hopefully more women will be more interested in engineering and



Public Affairs

Fay Hicks says it's time to stop forcing nature to "knuckle under" to our demands.

maybe by seeing someone on the faculty here they will sit back and consider pursuing a career in engineering," she says, noting that in general it would be nice to see more women and men considering careers in civil engineering.

"Our parents encouraged us not to close any doors and left it up to us to decide what we wanted to do," she says, adding that her parents made it quite clear that their children would never have to struggle through on their own.

She's looking forward to teaching next term and continuing her research. "The more you do research the more you learn about your field and the more you teach the more you learn about your field. The two are complementary, especially in terms of graduate education," she says.

On the broader questions of where the engineering field is heading, Hicks believes society must adopt a new, more

harmonious view of the purpose of engineering.

"For a long time engineers were seen as the means by which we harness and make nature knuckle under to our needs. But over the longer term, a new view is required. We shouldn't make it knuckle under; we should try to work in harmony with it, so that we optimize the things that we've built already, rather than just throwing out and building new things, and . . . when we do need things, we should try to make them as efficient as possible. I think that's where the research has to go," she says. Better understanding the physics surrounding these things helps us to better utilize the things we've built already, she explains.

Recognizing the polarization that takes place on questions over water resources management, Hicks insists that there is nothing constructive about her taking sides

on issues such as the Oldman River Dam. "The more constructive thing to do is to say that my objective in my career will be to pursue ways to try—and this may be very idealistic—to achieve the goal desired without causing tremendous, detrimental environmental impacts." □

## Folio publishing schedule

Folio will not publish on the following dates: 21 and 28 December, and 4 January.

Deadlines for the 14 December issue are 9 am (copy) and 3 pm (advertisements) on 7 December.

Copy for the 11 January issue must reach the Office of Public Affairs by 9 am on 28 December. The deadline for receipt of advertising material is 3 pm on 28 December. □

# Wendy Coffin takes up directorship of Career and Placement Services

Career and Placement Services has a new director.

Effective 1 December, Wendy Coffin, former Administrative Professional Officer for the Special Sessions Office, Faculty of Extension, will take on her new responsibilities at CaPS.

Assuming the new position will present "a lot of challenges," says Coffin. "I'm not going in with any specific plans; it's an active unit and I want to find out what's there and then make some assessments

after that.

"It looks like CaPS has a dedicated staff and group of student career consultants," she says, adding that she's very excited about the move to CaPS.

CaPS is a University-operated career centre which offers career planning services to students and alumni. It is managed and operated by the University, but it also receives staffing and program support from Employment and Immigration Canada and financial

support from the Students' Union.

Coffin brings to her new position a wealth of related experience. Before her year-long stay with Special Sessions, she was manager of Internship Options, Department of Co-operative Education, Wilfred Laurier University, from 1984 to 1988. She was Internship Co-ordinator for the same department from 1981 to 1984.

Coffin was born and raised in Alberta and received her BA from the University of Calgary. □



Wendy Coffin

## CBC radio forum on environment to be recorded here

What can Albertans do for their environment?

That's the theme of a CBC radio forum which will be recorded 7 December at noon in 2-115 Education North as part of the annual joint meeting of the Environment Council of Alberta and its advisory committees.

Faculty, students and the public are welcome to join the ECA-PAC delegates to participate in the forum along with a panel of politicians, academics and citizens. Bring your bag lunch, and add your concerns to the list.

The ECA-PAC meeting is also open to the public; its theme this year is Education for the Environment. Guest speakers from CIDA and Alberta Education will be featured. Registration is free and it begins at 9 am on 7 December. A discussion of the role of environmental education in implementing an Alberta conservation strategy will continue over two days, wrapping up on the afternoon of 8 December.

Additional information on the meeting can be obtained from the Environment Council of Alberta at 427-5792. □

## CURRENTS



### Conference Funds Committee

The Conference Funds Committee recently approved an increase in the maximum funding available for international/national conferences from \$2,000 to \$2,200 per approved application and for regional/local conferences from \$1,000 to \$1,200.

For additional information and/or application forms, contact the Office of Research Services, 1-3 University Hall (492-5360).

### Open house for APOs

All Administrative Professional Officers are cordially invited to attend an Open House on Wednesday, 13 December, from 4 to 6 pm at University House, 11515 Saskatchewan Drive.

### Christmas sale in aid of Devonian Botanic Garden

A Christmas craft sale will take place at the Devonian Botanic Garden 3 December, noon to 4 pm. Handcrafted gift items, Christmas wreaths, centrepieces and floral arrangements, all produced by members of the Garden's Crafters Association, will be on sale.

Family activities, including free horse-drawn wagon rides, a bake sale, and hot refreshments will be incorporated into the sale.

### Lancement du livre à la Faculté Saint-Jean

Lancement du livre *S'entraîner à raisonner juste* de Laurent Godbout, professeur de philosophie à la Faculté Saint-Jean, le vendredi 8 décembre à 16h30 au Salon des Étudiants de la Faculté Saint-Jean. Il y aura une brève conférence de l'auteur sur son livre, livre qu'il sera possible d'acheter sur place, avec autographe de l'auteur. Un vin d'honneur et hors d'oeuvres suivront. Tous sont les bienvenus, en particulier amis et anciens élèves et collègues du professeur Godbout.

Ce lancement est organisé par l'ACFAS-Alberta et la Faculté Saint-Jean. Pour de plus amples informations, contactez Bruno Maranda au 465-8745.

### Faculty Badminton Club

Badminton is played every Tuesday evening, 8-10 pm, in E-9 (Dance Gym) and every Wednesday evening, 8-10 pm, in the Education Gym. Faculty, research associates, postdoctoral fellows and spouses are welcome. The annual fee is \$15 per person and includes cost of birds. Telephone AZ Capri, 492-5502, or N Cyr, 450, 5417, for more information.

## New Release

### **Universities Telephone Directory 1989-1990**

Puts you in touch with faculty and officers at AUCC member institutions. Included in the directory are the names, degrees and telephone numbers of:

- executive and administrative officers
- deans of faculties, directors of schools and department chairs
- directors of research institutes and research chairs.

Also provided are the name, address, telephone numbers and, where available, telex and fax numbers, of:

- the universities
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- federal and provincial agencies and departments.

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Order your copy now from **AUCC Publications/com, 151 Slater Street, Ottawa, Canada K1P 5N1**.

Note: Prepayment in Canadian funds required.



Association of Universities and Colleges of Canada

## Construction of service corridor necessitates pile driving activity

In the last year a flurry of construction activity has occurred in the south campus area. The Heating Plant Expansion has been under construction since September 1988 and more recently a new access off University Avenue by the Mewburn Veterans Centre has been constructed to assist with future development plans of the WW Cross Cancer Institute. In addition, a service tunnel has been under construction since October 1989 connecting the Heating Plant Expansion with the proposed Cross Cancer development project set to begin in spring 1990.

Last month Planning and Development received enquiries concerning the noise generated by construction activities in this area. The noise has been caused by the pile driving for the service corridor. (The vertical steel piles have to be driven into the ground to reinforce the earth so that excavation and wall construction of the corridor can occur.) Further pile driving is required to complete the project, but will be limited to the following periods: 2 to 9 December, 10 to 17 February, and 24 February to 3 March.

Updates to this schedule will be announced as new information is made available. □

## EVENTS



### Talks

#### Family Studies

30 November, 2 pm Carol Markstrom-Adams, Utah State University, "Attitudes on Dating."

Courtship, and Marriage: Perspectives on Ingroup Versus Outgroup Relationships by Religious Minority and Majority Adolescents." 3-57 Assiniboia Hall.

1 December, 2 pm Gerald R Adams, Utah State University, "An Overview of Two Research Program Areas: Social Skills Training with Adolescents and Parent-Adolescent Relationships." 3-57 Assiniboia Hall.

#### Chemical Engineering

30 November, 3 pm SL Shah, "A Guided Tour of Adaptive Process Control." E342 Chemical-Mineral Engineering Building.

#### Music

30 November, 3:30 pm Robert Klakowich and Andrew Zinck, "Computer Applications and the Thematic Catalogue." 2-32 Fine Arts Building.

#### Entomology

30 November, 4 pm WR Kaufman, "Ticks: Why Their Salivary Glands Are So Important." TBW-1 Tory Breezeway. 7 December, 4 pm Kari Vepsäläinen, Department of Zoology, University of Helsinki, "Parasitism of Waterstrider Eggs by a Scelionid Wasp in Finland." TBW-1 Tory Breezeway.

#### Alberta Heritage Foundation for Medical Research

30 November, 4 pm Anthony N Martonosi, professor, Departments of Biochemistry and Molecular Biology, State University of New York, "Emerging Views of the Structure and Dynamics of the Calcium ATPase of Sarcoplasmic Reticulum." 207 Heritage Medical Research Building. Sponsor: Cardiovascular Disease Research Group. 5 December, 4 pm Louis J DeGennaro, associate professor of Neurology and Molecular Genetics and Microbiology, Department of Neurology, University of Massachusetts Medical School, "The Synapsin I Gene: From Molecules to Medicine." 5-10 Medical Sciences Building. Presented by Anatomy and Cell Biology.

7 December, 4 pm A James Liedtke, professor of medicine and head, Cardiology Section, University of Wisconsin Medical School, "Metabolic Alterations in Myocardial Ischemia and Reperfusion." 207 Heritage Medical Research Centre. Sponsor: Cardiovascular Disease Research Group. 12 December, 4 pm Ailish Hayes, pediatrician and consultant in Teratology, Massachusetts General Hospital, "Retinoid Teratogenesis: Anti-Acne Drug (Accutane) and its Effect on the Fetus." 5-10 Medical Sciences Building. Presented by Anatomy and Cell Biology, Obstetrics and Gynecology, Pediatrics.

#### Plant Science

1 December, 12:30 pm Lol Maret, "The Physiological Response of Plants to Flooding." 1-06 Agriculture-Forestry Centre.

#### Genetics

1 December, 11 am Bernd Friebel, Department of Plant Pathology, Kansas State University, "Use of Rye (*Secale Cereale*) Chromatin for Improving Powdery Mildew Resistance in Wheat."

G-217 Biological Sciences Centre. 5 December, 4 pm Joel Weiner, "The Molecular Biology of Dimethylsulfoxide Reduction in *E. coli*." G-217 Biological Sciences Centre.

#### Zoology

1 December, 3:30 pm Anthony Martinosi, Department of Biochemistry, State University, New York, "Adaptation of Sarcoplasmic Reticulum to Physiological Requirements." M-149 Biological Sciences Centre.

#### International Centre

4 December, noon Krishna Hamal, "Agricultural Development in Nepal."

5 December, 12:30 pm Jane Heather, "Popular Theatre: Its Role in Social Change."

6 December, noon Dexter Young, president, Aboriginal Student Council, "Native Groups, Services and Programs on Campus." All events in 172 HUB International.

#### Nursing

4 December, noon Health and Nursing Issues Brown Bag Lunch. Phyllis Giovannetti, president of the Alberta Association of Registered Nurses, "Nursing in Alberta: Challenges to be Faced." 2-115 Clinical Sciences Building.

#### Computing Science

4 December, 3:30 pm David Jefferson, University of California at Los Angeles, "The Time Warp Method of Parallel Discrete Event Simulation." 619 General Services Building.

#### Philosophy

4 December, 4 pm Panel discussion: "Employment Equity and Academic Hiring: Legal and Philosophical Dimensions" — A McLellan, T Dare, W Donner, R Shiner. 2-5 Business Building.

#### English

5 December, 3:30 pm Sara Stambaugh, "Isak Dinesen Among the Victorians: Some Shared Symbolic Techniques." 5-20 Humanities Centre.

#### Statistics and Applied Probability

6 December, 3 pm Gordon Flowerdew, "Nomograms for Odds Ratio Inference." 657 CAB.

#### Forest Science

6 December, 3:30 pm Richard Rothwell, "Substrate Water Contents and Temperature on Drained and Undrained Alberta Peatlands." 2-1 Mechanical Engineering Building.

13 December, 3:30 pm Ted EH Hogg, "Potential Greenhouse Gas Emission From Peat Profiles: Effects of Temperature, Drainage and Fire." 2-1 Mechanical Engineering Building.

#### History and Slavic and East European Studies

6 December, 7 pm Rudolf Urba, associate professor of pharmacology, University of British Columbia, "Unanswered Questions from the Holocaust." L-12 Tory Lecture Theatre. Cosponsored by the Czechoslovak Society of Arts and Science of Alberta and the Jewish Federation of Edmonton.

## Limnology and Fisheries Discussion Group

7 December, 12:30 pm Jeff Curtis, "The Influence of Dissolved Organic Carbon on Phosphorus Sedimentation and Algal Growth Rates in Lakes." M-149 Biological Sciences Centre.

#### Animal Science

7 December, 2 pm JN Petite, Department of Animal and Poultry Science, University of Guelph, "The Development of Somatic and Germinal Chimeras in the Chicken and the Prospects for Gene Manipulation." 318 Agriculture-Forestry Centre.

#### Centre for International Business Studies

7 December, 2 pm Stephen Blank, director of the Institute for US-Canada Business Studies, Pace University, New York, "Japan and North American Free Trade—Some Implications." Business Building. RSVP: 492-2225.

#### Geography

7 December, 3 pm Alwynne Beaudoin, Archaeological Survey of Alberta, "Late Glacial and Early Holocene Vegetation and Landscapes of Alberta." 3-36 Tory Building.

## The Arts

### Exhibitions

#### McMullen Gallery

Until 15 December "The Art Fibre." 1G1.08 Mackenzie Health Sciences Centre. 492-4211.

#### FAB Gallery

Until 17 December "Kim Houghtaling sculpture." 1-1 Fine Arts Building. 492-2081.

#### Bruce Peel Special Collections Library

Until 29 December "Printed at the Curwen Press"—a miscellany of books, periodicals and ephemera produced at the Press during its heyday, 1919-1956. Hours: 8:30-4:30 Monday and Friday; 8:30-6 Tuesday, Wednesday, Thursday; noon-5 pm Saturday.

#### Music

1 December, 8 pm Madrigal Singers Concert. Leonard Ratzlaff, director. Admission: \$5/adults; \$3/students and seniors. All Saints' Anglican Cathedral. 3 December, 3 pm Concert Band Concert. William H Street, director. Admission: \$5/adults; \$3/students and seniors. Convocation Hall.

3 December, 8 pm Chamber Winds and Orchestra Concert. Malcolm Forsyth and Norman Nelson, directors. Admission: \$5/adults; \$3/students and seniors. Convocation Hall.

5 and 6 December, 8 pm Chamber music recitals. Convocation Hall.

10 December, 8 pm Concert Choir performance. Debra Ollikkala, director, with Marnie Giesbrecht, organist. Admission: \$5/adults; \$3/students and seniors. First Presbyterian Church.

## Myer Horowitz Theatre

1 December, 8 pm Wildlands Wildlife Club/Friends of the North present "Amazon North with Valdy and Guests." 436-3156.  
5 December, 8 pm Patricia Neary's "Ballet."  
7 December, 6 pm The Learning Disability Association of Alberta presents a "Family Variety Show." 426-2525.  
8 December, 5:30 and 8:30 pm Uncles at Large present "Uncles Christmas Comedy Review."

## Sports

### Basketball

1 and 2 December, 6:30 pm Pandas vs Victoria.  
1 and 2 December, 8:15 pm Golden Bears vs Victoria.

### Wrestling

2 December U of A Classic.

## Award opportunities

### The Bertrand Russell Society Inc

In 1990, the Bertrand Russell Society will award funds to help defray expenses of currently enrolled doctoral and master's candidates for graduate level degrees, whose proposed dissertation (PhD) or thesis (MA) best gives promise of dealing in a significant way with the thought, life or times of Bertrand Russell.

Depending on the number and equality of applications, the award money will fall into one of two patterns: a) \$1,000 for a doctoral candidate and \$500 for a master's or b) \$500 to each of three candidates for the master's.

Candidates may be enrolled in any field.

For more information, write to: BRS Information Committee, RD 1, Box 409, Coopersburg, PA USA 18036.

## Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

### Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 24 November. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Positions available as of 24 November 1989.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.

Duplicating Equipment Operator, Grade 2, Faculty of Law, (\$1,336-\$1,647)  
Clerk Typist (Part-time), Grade 3, Physical Plant, (\$881-\$1,085) (prorated)  
Clerk Typist, Grade 3, University Health Service, (\$1,468-\$1,808)  
Senior Financial Records Clerk, Grade 4, Housing and Food Services, (\$1,602-\$1,973)  
Clerk Steno, (Part-time/Term), Grade 4, Comparative Literature, (\$801-\$987) (prorated)  
Clerk Typist, Grade 5, Physical Education and Sport Studies, (\$1,623-\$2,166)  
Clerk Steno, Grade 5, Animal Science, (\$1,623-\$2,166)  
Clerk Steno, Grade 5, Faculty of Extension (English Language Program), (\$1,623-\$2,166)  
Library Assistant, Grade 5, (Term to November 1990), Cameron Library, (\$1,679-\$2,166)  
Accounts Clerk, (Term to 31 July 1990), Grade 5, Health Sciences Laboratory Animal Services, (\$1,749-\$2,166)  
Accounts Clerk (Term to 31 August 1990), Grade 5, University Computing Systems, (\$1,749-\$2,166)  
Student Records Processing Clerk, Grade 5, Faculty of Extension (General Office), (\$1,749-\$2,166)  
Secretary, Grade 5, Rural Economy, (\$1,749-\$2,166)  
Secretary, Grade 6, Faculty of Extension (Government Studies), (\$1,808-\$2,386)  
Admission Records Assistant, Grade 7, Office of the Registrar, (\$1,808-\$2,612)  
Truck Helper, Grade 4, (40 hours/week), Printing Services, (\$1,830-\$1,973)  
Animal Technician, Grade 5, Bioscience Animal Service, (\$1,749-\$2,166)  
Office Equipment Repair Technician, Grade 5, Printing Services, (\$1,749-\$2,166)  
Typographical Tradesman, Grade 6, Printing Services, (\$2,051-\$2,556)  
Administrative Assistant, Grade 7, (Term), Personnel Services and Staff Relations, (\$2,084-\$2,612)  
Instrument Technician, Grade 7, Chemical Engineering, (\$2,084-\$2,612)  
Technologist, Grade 8, Entomology, (\$2,251-\$2,839)  
Administrative Assistant, Grade 8, Faculty of Extension, (\$2,251-\$2,839)  
Nurse, Grade 9, (40 hours/week), University Health Service, (\$2,623-\$3,531)  
Specialist Technician, Grade 10, Physics, (\$2,622-\$3,346)

The following positions retain salary rates in accordance with the previous classification system and pay plan.

Clerk Typist II (Part-time/Trust), Rick Hansen Centre, (\$8.73-\$10.84/hour)  
Clerk Typist III (Part-time/Trust), Home Economics (Foods and Nutrition), (\$885-\$1,112) (prorated)  
Clerk Steno III (Trust/Term to 30 June 1990), Office of Research Services (Technology Transfer), (\$1,475-\$1,853)  
Clerk Steno III (Trust/Term to 15 November 1990), Physics, (\$1,475-\$1,853)  
Library Clerk III (Term for 1 year), Educational Psychology, (\$1,475-\$1,853)  
Secretary (Trust), Faculty of Medicine, (\$1,645-\$2,100)  
Technician I (Trust), Psychology, (\$1,705-\$2,189)  
Technician I/II (Trust/Term to 31 March 1990), Medical Microbiology and Infectious Diseases, (\$1,705-\$2,488)  
Technologist I/II (Trust/Term to 30 June 1991), Faculty of Medicine, (\$2,100-\$2,960)

## Advertisements

### Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 595-3200, Lois Dutton, Re/Max Ports West, Victoria, BC.

Rent - January for one year, two-plus bedroom bungalow, fully furnished, large lot, garden. Pleasantview, quiet area close to schools, bus, stores. \$650/month. Non-smokers. 435-2027.

Sale - Four bedroom house, ten minutes from University, walk to Southgate, \$106,000, 1 July 1990 possession. 435-1359.

Sale - Pleasantview, \$239,000, 2,500', two storey, gorgeous lot, custom construction, many fine features. For details and to view, call Clarence Rusnell, Royal LePage Realty, 437-7480 (24 hours).

Rent - Woodvale, 1,760' custom home. Furnished, three bedrooms, loft, three bathrooms, six appliances, attached double garage, three decks, landscaped. No pets. References, lease, DD required. 1 February, \$1,290. Jaferi, 463-7736.

Rent - Furnished apartment, south Garneau. One bedroom, office, den. Includes fireplace, television (and basic cable service), microwave, dishwasher, washer/dryer, underground parking, patio. Susan, 433-4878, Wallis, 435-7646.

Office for Lease in Heritage House, 10804 81 Avenue, 650 square feet. Second floor divided into two rooms with excellent daylight and views, private bathroom, air conditioning, security, parking. Phone 433-0854.

Sale - Southwest bungalow, three bedrooms plus family room, fireplace, double garage, beautiful condition, \$127,900. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.

Sale - University area, \$86,500, updated two bedroom bungalow, possible suite downstairs. New siding, windows, furnace. Convenient Beaupark location. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.

Sale - University area two storey, spacious, well maintained. Walk to campus. For details, call Chris Tenove, 433-5664, 436-5250, Spencer Realty.

Sale - Ravine property with south backyard. Immaculate 1 1/2 storey home. Hardwood floors. Highlands area. New listing. Chris Tenove, 433-5664, 436-5250, Spencer Realty.

Rent - Three bedroom bungalow main floor, three year old house, five appliances, \$650/month, 10844 68 Avenue. Jeff, 433-3751 after 6 pm.

Rent - Fully furnished three bedroom townhouse, south side. January-July,

\$695/month, possibility car. 435-1710, 492-5731.

Rent - Parkallen, charming upgraded home, convenient to University, hospital, downtown. Three bedrooms, two baths, four appliances, double garage, unfurnished. Immediate possession, \$750. Call 434-4882 or Pat, 436-5250.

Rent - Westend, charming two bedroom home, fully furnished, all appliances, garage, fireplace, 15 November-15 May, \$750. 452-2498 evenings.

Sale - Immaculate, custom built, energy efficient bungalow designed to accommodate a wheelchair. Super location on a quiet crescent. Joan Lynch, Spencer Realty, 436-5250, 433-9025.

Sale - Spacious and special four bedroom home in desirable location. Double detached garage plus parking pad. Great lot with west exposure. Joan Lynch, Spencer Realty, 436-5250, 433-9025.

### Accommodations wanted

Apartment in Honolulu/Maui, 15 December-4 January, 433-8302. Responsible, young, working couple willing to housesit. University area preferred. Leslie, 492-5266, 998-7358.

### Goods for sale

Cash paid for appliances, 432-0272.

The Edmonton Book Store specializes in books for the University community. Quality books bought and sold every day; just a short walk from campus, 8530 109 Street. Call 433-1781.

Four antique oak chairs, beautiful, 451-6025, 492-2459.

AJ510 video terminal, visual editing, \$200 obo, 433-8302.

Exhibition and Sale: Pottery by Akiko Kohaua, 3 December, 11 am-4:30 pm, 12512 66 Avenue.

Leclerc 45" colonial loom, accessories, \$1,100, 430-6483.

### Miscellaneous

Wanted - Small rock polisher, 430-6483.

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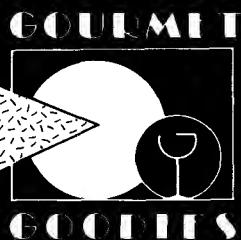
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statistical process control, equipment selection/validation  
and vendor interface for plastic part production for  
medical diagnostic kits are required. Several years related  
experience necessary.

Salary commensurate with education and experience.  
Qualified candidates are invited to submit their curriculum  
vitae by December 15th to:

Personnel Director  
**BIOMIRA INC.**  
9411 - 20 Avenue  
Edmonton, Alberta T6N 1E5

## **FACULTY OF MEDICINE** **DEAN'S RESEARCH ROUNDS**

**WEDNESDAY, DECEMBER 6, 1989**

**DR. J. WEINER**  
DEPT. OF BIOCHEMISTRY

**"LIFE WITHOUT OXYGEN: LESSONS FOR A  
MEMBRANE BIOCHEMIST"**

**Bernard Snell Hall**  
Walter C. MacKenzie Health Sciences Centre  
3:30 - 5:00

Tea, juice, cookies etc. to follow.

For further information contact:  
Office of Research  
Faculty of Medicine  
492-6621